

ABSTRACT

DISCRETE ELECTRONIC COMPONENT OF THE INDUCTIVE TYPE,
AND METHOD FOR MANUFACTURING SUCH COMPONENTS

The manufacturing method for components of the inductive type, in particular inductance coils, transformers or antennae, consists in making by micro-machining simultaneously on a first substrate made of magnetic material a plurality of first parts (1) connected to each other by connecting elements (2) or a connecting support, inserting on the arms (8a, 8b, 8c) of these first parts (1) a printed multi-layered plate (4, 5) having openings for the arms and metal windings ending in at least two contact pads (7a, 7b), in placing and securing a second substrate made of magnetic material on the first substrate and the plate, said second substrate having undergone micro-machining to obtain second parts (13) complementary to the first parts. These second parts are connected to each other by connecting elements or a connecting support. Then, the components are separated and, in a particular implementation, the contact pads arranged on tongues (16, 18) of said plate are folded against a base (9) of the core or of the magnetic circuit to allow surface mounting (SMD).

15 Figure 5